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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Linkade et al.

Serial No. 09/831,123

Filed: May 4, 2001

Group: 1635

Examiner: Not Assigned

Confirmation No.: 8722

For:

BIOMARKERS FOR OXIDATIVE STRESS

NOTIFICATION OF PATENT OFFICE ERROR IN INTERNATIONAL APPLICATION NUMBER ON FILING RECEIPT

Assistant Commissioner for Patents Washington, DC 20231

Sir:

Applicants hereby notify the United States Patent and Trademark Office of an error in the International Application Number on the Filing Receipt.

The correct International Application Number is PCT/US99/06133. The correct International Application Number was submitted with the Applicants' Transmittal Letter To The United States Designated/Elected Office (DO/EO/US) Concerning A Filing Under 35 U.S.C. 371; a photocopy of this transmittal letter is enclosed. Also included is a copy of the front page of the published application showing the correct International Application Number. The correct International Application Number was also submitted on the executed Inventors' Declaration.

A first request to correct this error was submitted on June 29, 2001. Please correct the International Application Number and send confirmation of the revision to the undersigned. The need for correction is not due to any error by Applicants and it is believed that no fee is due. If this is incorrect, however, please charge any requisite fees to Deposit Account No. 07-1969.

Respectfully submitted,

Susan K. Doughty

Reg. No. 45;495

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Attorney Docket No. 68-97 Ila: October 31, 2001

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage for Express Mail in an envelope addressed to:

The Assistant Commissioner for Patents, Washington, D.Q

Loretta Allemenos

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Date





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APPLICATION NUMBER

FILING DATE

GRP ART UNIT

FIL FEE REC'D ATTY.DOCKET.NO DRAWINGS

IND CLAIMS TOT CLAIMS

09/831,123

08/13/2001

1635

1569

68-97

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CONFIRMATION NO. 8722

FILING RECEIPT

Greenlee Winner & Sullivan Suite 201 5370 Manhattan Circle Boulder, CO 80303

Date Mailed: 10/18/2001

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Joseph M. Kinkade Jr, Decatur, GA; Raymond Shapira, Atlanta, GA; Peter E. Jensen, Atlanta, GA; Ngoc-Anh Le, Decatur, GA; Jan Pohl, Tucker, GA; W. Virgil Brown, Atlanta, GA;

Domestic Priority data as claimed by applicant

PCT/4599/2 6133

THIS APPLICATION IS A 371 OF <u>PCT/US99/06133</u> 11/05/1999 WHICH CLAIMS BENEFIT OF 60/107,404 11/06/1998

Foreign Applications

Projected Publication Date: Not Applicable, filed prior to November 29,2000

Non-Publication Request: No ...

Early Publication Request: No

** SMALL ENTITY **

Title

Biomarkers for oxidative stress

OCT 24 2001 5KD

Greenlee, Winner, Suilivan

ENT'D OCT 24 2001

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1. X This is a F	RST submission of item	ns concerning a filing under 35 U.S.C. 371.		1
2. This is a Si	ECOND or SUBSEQUI	ENT submission of items concerning a filing	under 35 U.S.C. 371.	
2. This is an a	variess request to hegin	national examination procedures (35 U.S.C.	371(f)). The submission must include	
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4. X The US has	been elected by the exp	piration of 19 months from the priority date (Article 31).	
5. X A copy of	he International Applica	trion as filed (35 U.S.C. 371(c)(2))	onal Bureau).	
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8. An English	language translation of	the amendments to the claims under PCT Ar	ticle 19 (35 U.S.C. 371 (c)(3)).	
9. An oath or	declaration of the inver	tor(s) (35 U.S.C. 371(c)(4)).		
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10. An English Article 36	(35 U.S.C. 371(c)(3)).			
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21. X The following fees are submitted: BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)): Neither international preliminary examination fee (37 CFR 1.482) or 3 1 700 continuous preliminary examination fee (37 CFR 1.482) or 3 1 700 continuous preliminary examination fee (37 CFR 1.482) or 3 1 700 continuous preliminary examination fee (37 CFR 1.482) or 3 1 700 continuous preliminary examination fee (37 CFR 1.482) or 3 1 700 continuous preliminary examination fee (37 CFR 1.482) or 3 1 700 continuous preliminary examination fee (37 CFR 1.482) or 3 1 700 continuous preliminary examination fee (37 CFR 1.482) or 3 1 700 continuous preliminary examination fee (37 CFR 1.482) or 3 1 700 continuous preliminary examination fee (37 CFR 1.482) or 3 1 700 continuous preliminary examination fee (37 CFR 1.482) or 3 1 700 continuous preliminary examination fee (37 CFR 1.482) or 3 1 700 continuous preliminary examination fee (37 CFR 1.482) or 3 1 700 continuous preliminary examination fee (37 CFR 1.482) or 3 1 700 continuous preliminary examination fee (37 CFR 1.482) or 3 1 700 continuous preliminary examination fee (37 CFR 1.482) or 3 1 700 continuous preliminary examination fee (37 CFR 1.482) or 3 1 700 continuous preliminary examination fee (37 CFR 1.482) or 3 1 700 continuous preliminary examination fee (37 CFR 1.482) or 3 1 700 continuous preliminary examination fee (37 CFR 1.482) or 3 1 700 continuous preliminary examination fee (37 CFR 1.482) or 3 1 700 continuous preliminary examination fee (37 CFR 1.482) or 3 1 700 continuous preliminary examination fee (37 CFR 1.482) or 3 1 700 continuous preliminary examination fee (37 CFR 1.482) or 3 1 700 continuous preliminary examination fee (37 CFR 1.482) or 3 1 700 continuous preliminary examination fee (37 CFR 1.482) or 3 1 700 continuous preliminary examination fee (37 CFR 1.482) or 3 1 700 continuous preliminary examination fee (37 CFR 1.482) or 3 1 700 continuous preliminary examination fee (37 CFR 1.482) or 3 1 700 continuous preliminary examination fee (37 CFR 1.482) or 3								
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 a. X A check in the amount of S \$1,519.00 to cover the above fees is enclosed. b. Please charge my Deposit Account No. in the amount of S to cover the above fees. A duplicate copy of this sheet is enclosed. c. X The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 07/1969. A duplicate copy of this sheet is enclosed. 								
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Susan K. Doughty							EV	
Greenlee, Winner and Sullivan, P.C.						ir w. Doggan		
5370 Manhattan Circle, Suite 201 NAME						_		
Boulder, Colorado 80303						595		
Phone: (303) 499-8080 REGISTRATION NUMBER								
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I hereby certify that this Transmittal Letter to the United States - Concerning a Filing Under 35 U.S.C. 371 (Identify type of correspondence) is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: The Commissioner of Patents and Trademarks, Washington, D.C.									
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US

(71) Applicant (for all designated States except US): EMORY UNIVERSITY [US/US]; 2009 Ridgewood Drive, Atlanta, GA 30322 (US).

(72) Inventors; and

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(74) Agents: DOUGHTY, Susan, K. et al.; Greenlee, Winner and Sullivan, P.C., Suite 201, 5370 Manhattan Circle, Boulder, CO 80303 (US).

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Published

With international search report.

(54) Title: BIOMARKERS FOR OXIDATIVE STRESS

(57) Abstract

This invention relates generally to methods of detecting and quantifying biomarkers of oxidative stress in proteins. The biomarker nay be any amino acid that has undergone oxidation (or other modification, e.g. chloro-tyrosine, dityrosine). Emphasis is given herein on oxidized sulfur- or selenium-containing amino acids (SSAA). The biomarker of oxidative stress in proteins may be detected with in antibody that binds to oxidized amino acids, specifically oxidized sulfur- or selenium-containing amino acids. The antibody may be nonoclonal or polyclonal. The presence of biomarker or amount of biomarker present in a sample may be used to aid in assessing the fficacy of environmental, nutritional and therapeutic interventions, among other uses.

